

SPOKANE RIVER BASIN

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12433542 BLUE CREEK ABOVE MIDNITE MINE DRAINAGE, NEAR WELLPINIT, WA

LOCATION.--Lat 47°55'28", long 118°05'18", in NW 1/4 SE 1/4 sec.13, T.28 N., R.37 E., Stevens County, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--6.0 mi².

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--16 years (water years 1985-98, 2001-2002), 1.24 ft³/s, 2.80 in/yr, 895 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65 ft³/s Mar. 22, 1997, gage height, 3.22 ft, minimum discharge, 0.01 ft³/s Aug. 12, 13, 1992, gage height, 0.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 17 ft³/s Apr. 3, gage height 1.81 ft; minimum discharge 0.04 ft³/s Oct. 1-4 and 11, but may have been lower during periods of ice effect or missing record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.06	e0.18	e0.18	e0.50	e0.75	15	4.3	1.2	0.64	0.30	0.14
2	0.06	0.06	0.28	e0.18	e0.50	e0.75	15	4.0	1.2	0.64	0.30	0.14
3	0.06	0.06	0.28	e0.20	e0.50	e0.80	15	3.9	1.1	0.61	0.30	0.14
4	0.06	0.06	0.24	e0.20	e0.50	e0.84	15	3.7	1.1	0.58	0.30	0.14
5	0.06	0.07	0.24	e0.20	e0.50	e0.84	15	3.7	1.1	0.56	0.30	0.14
6	0.06	0.06	0.24	e0.25	e0.50	e0.84	15	3.5	1.0	0.56	0.29	0.12
7	0.06	0.07	0.22	0.75	e0.50	e0.80	14	3.6	1.0	0.55	0.27	0.12
8	0.06	0.07	0.21	0.78	e0.50	e0.80	14	3.4	1.0	0.60	0.26	0.12
9	0.06	0.07	0.21	0.96	e0.52	e0.90	14	3.3	1.0	0.55	0.26	0.12
10	0.06	0.07	0.27	0.81	e0.52	1.2	14	3.1	0.99	0.54	0.26	0.11
11	0.07	0.07	0.27	0.81	e0.50	1.7	13	3.0	0.97	0.53	0.25	0.10
12	0.07	0.08	e0.22	0.81	e0.48	1.7	12	2.9	0.95	0.50	0.25	0.10
13	0.07	0.08	e0.35	0.81	e0.48	1.7	12	2.8	0.91	0.50	0.25	0.10
14	0.07	0.13	e0.34	0.81	e0.48	1.9	12	2.7	0.89	0.49	0.23	0.08
15	0.07	0.11	e0.25	e0.80	e0.50	2.1	11	2.5	0.87	0.47	0.20	0.09
16	0.07	0.12	e0.28	e0.75	e0.54	2.1	11	2.3	0.87	0.44	0.21	0.12
17	0.07	0.18	e0.28	e0.70	e0.56	2.0	11	2.3	0.87	0.39	0.22	0.10
18	0.06	0.11	e0.24	e0.75	e0.58	2.0	9.6	2.2	0.87	0.39	0.23	0.09
19	0.06	0.11	0.26	e0.80	e0.58	2.0	9.0	2.2	0.87	0.38	0.23	0.09
20	0.06	0.11	0.24	e0.78	e0.58	1.9	8.6	2.1	0.85	0.38	0.21	0.09
21	0.06	0.12	0.24	e0.75	0.69	2.0	7.9	2.0	0.78	0.37	0.20	0.08
22	0.06	0.15	e0.22	e0.75	0.95	2.0	7.5	2.0	0.73	0.37	0.19	0.07
23	0.06	0.15	e0.20	e0.75	1.3	2.1	6.9	1.9	0.71	0.37	0.18	0.07
24	0.06	e0.13	e0.18	0.73	1.2	2.2	6.7	1.8	0.71	0.35	0.18	0.07
25	0.06	e0.12	e0.15	0.71	e0.80	2.7	6.3	1.8	0.70	0.35	0.19	0.07
26	0.06	0.11	e0.15	0.60	e0.70	3.2	5.9	1.6	0.69	0.34	0.18	0.08
27	0.06	0.10	e0.15	0.56	e0.70	4.3	5.6	1.6	0.66	0.33	0.19	0.09
28	0.06	0.11	e0.15	e0.50	e0.75	6.0	5.1	1.5	0.67	0.31	0.18	0.09
29	0.06	0.13	e0.18	e0.48	---	7.9	4.9	1.5	0.69	0.30	0.15	0.09
30	0.10	0.12	e0.18	e0.50	---	10	4.6	1.4	0.65	0.30	0.14	0.09
31	0.11	---	e0.18	e0.50	---	13	---	1.3	---	0.30	0.14	---
TOTAL	2.02	2.99	7.08	19.16	17.41	83.02	316.6	79.9	26.60	13.99	7.04	3.05
MEAN	0.065	0.100	0.228	0.618	0.622	2.678	10.55	2.577	0.887	0.451	0.227	0.102
MAX	0.11	0.18	0.35	0.96	1.3	13	15	4.3	1.2	0.64	0.30	0.14
MIN	0.06	0.06	0.15	0.18	0.48	0.75	4.6	1.3	0.65	0.30	0.14	0.07
AC-FT	4.0	5.9	14	38	35	165	628	158	53	28	14	6.0
CFSM	0.01	0.02	0.04	0.10	0.10	0.45	1.76	0.43	0.15	0.08	0.04	0.02
IN.	0.01	0.02	0.04	0.12	0.11	0.51	1.96	0.50	0.16	0.09	0.04	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

MEAN	0.160	0.200	0.219	0.756	1.718	5.564	4.020	1.407	0.754	0.366	0.194	0.142
MAX	0.25	0.37	0.47	5.61	12.4	25.7	14.1	3.40	1.85	0.76	0.36	0.24
(WY)	1998	1985	1997	1997	1995	1997	1997	1996	1997	1997	1984	1984
MIN	0.062	0.10	0.13	0.094	0.16	0.34	0.34	0.30	0.17	0.10	0.067	0.054
(WY)	2002	2002	2001	2001	1990	1990	1990	1992	1992	1994	2001	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1984 - 2002

ANNUAL TOTAL	84.81	578.86	1.236
ANNUAL MEAN	0.232	1.586	4.69
HIGHEST ANNUAL MEAN			1997
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	0.74	May 24	0.19
LOWEST DAILY MEAN	0.04	Sep 16	1994
ANNUAL SEVEN-DAY MINIMUM	0.04	Sep 16	0.04
ANNUAL RUNOFF (AC-FT)	168	1150	Sep 16
ANNUAL RUNOFF (CFSM)	0.039	0.26	2001
ANNUAL RUNOFF (INCHES)	0.53	3.59	2.80
10 PERCENT EXCEEDS	0.56	4.1	2.9
50 PERCENT EXCEEDS	0.15	0.50	0.25
90 PERCENT EXCEEDS	0.06	0.07	0.12

e Estimated